# **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	_09	1545	99	8 A		
Source:		,	IF	1/6	, 2 ,	
Date Processed by STIC:			12	110	104	
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# ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 12/10/2004
PATENT APPLICATION: US/09/545,998A TIME: 13:41:47

Input Set : D:\14094-20005.10 - seq list from client.txt
Output Set: N:\CRF4\12102004\I545998A.raw

#### SEQUENCE LISTING

```
4 (1) GENERAL INFORMATION:
              (i) APPLICANT: Gorman, Daniel M.
      7
                             Randall, Troy D.
      8
                             Zlotnik, Albert
     10
             (ii) TITLE OF INVENTION: MAMMALIAN CELL SURFACE ANTIGENS; RELATED
     11
                                       REAGENTS
     13
           (iii) NUMBER OF SEQUENCES: 9
     15
             (iv) CORRESPONDENCE ADDRESS:
     16
                   (A) ADDRESSEE: DNAX Research Institute
     17
                   (B) STREET: 901 California Avenue
     18
                   (C) CITY: Palo Alto
                   (D) STATE: California
     19
     20
                   (E) COUNTRY: USA
     21
                   (F) ZIP: 94304-1104
     23
             (v) COMPUTER READABLE FORM:
     24
                   (A) MEDIUM TYPE: Floppy disk
     25
                   (B) COMPUTER: IBM PC compatible
     26
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     27
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     29
            (vi) CURRENT APPLICATION DATA:
C--> 30
                   (A) APPLICATION NUMBER: US/09/545,998A
C--> 31
                   (B) FILING DATE: 10-Apr-2000
     32
                   (C) CLASSIFICATION:
     38
           (vii) PRIOR APPLICATION DATA:
     35
                   (A) APPLICATION NUMBER: US 60/023,419
     36
                   (B) FILING DATE: 16-AUG-1996
     39
                   (A) APPLICATION NUMBER: US 60/027,901
                   (B) FILING DATE: 07-OCT-1996
     40
     42
          (viii) ATTORNEY/AGENT INFORMATION:
     43
                   (A) NAME: Ching, Edwin P.
     44
                   (B) REGISTRATION NUMBER: 34,090
     45
                   (C) REFERENCE/DOCKET NUMBER: DX0612K
     47
            (ix) TELECOMMUNICATION INFORMATION:
     48
                   (A) TELEPHONE: 650-852-9196
     49
                   (B) TELEFAX: 650-496-1200
     52 (2) INFORMATION FOR SEQ ID NO: 1:
     54
             (i) SEQUENCE CHARACTERISTICS:
     55
                   (A) LENGTH: 1073 base pairs
     56
                   (B) TYPE: nucleic acid
     57
                   (C) STRANDEDNESS: single
     58
                   (D) TOPOLOGY: linear
     60
            (ii) MOLECULE TYPE: cDNA
```

RAW SEQUENCE LISTING DATE: 12/10/2004
PATENT APPLICATION: US/09/545,998A TIME: 13:41:47

Input Set : D:\14094-20005.10 - seq list from client.txt

Output Set: N:\CRF4\12102004\1545998A.raw

63		(ix)	FE <i>F</i>	אוויי	₹ •												
64		( === /				EV.	CDS										
65	(,																
68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:																	
	CTCG								-				מסמי	ממבי	מרתים ב	CAGGAG	60
	AAGC																109
73	moc	ACI			Ala												109
74			1	Gry	nια	ırp	5	Mec	пец	TYL	GIY	10	Der	Mec	пец	Cys	
	GTG	СТС		СПД	сст	CAG	_	ልሮሞ	СТА	CTT	GAG		CCT	ccc	ጥርም	GGC	157
	Val																137
78	15	LCu	7100	пси	O <sub>1</sub>	20	110	Der	var	Val	25	OLU	110	Gry	Cys	30	
-	CCT	GGC	AAG	GTT	CAG		GGA	ΔСТ	GGC	אאכ		ΔСТ	CGC	TGC	TGC		205
	Pro																205
82	110	<b>0</b>	Lyb	vul	35	11.011	OL y	DCI	O. y	40	TOIL		n-9	Cys	45	DCI	
	CTG	TAT	GCT	CCA		AAG	GAG	GAC	TGT		AAA	GAA	AGG	TGC		TGT	253
	Leu																
86		•		50	•	•		•	55		-			60		-	
88	GTC	ACA	CCT	GAG	TAC	CAC	TGT	GGA	GAC	CCT	CAG	TGC	AAG	ATC	TGC	AAG	301
	Val																
90			65		-		-	70	-			•	75		•	•	
92	CAC	TAC	CCC	TGC	CAA	CCA	GGC	CAG	AGG	GTG	GAG	TCT	CAA	GGG	GAT	ATT	349
93	His	Tyr	Pro	Cys	Gln	Pro	Gly	Gln	Arg	Val	Glu	Ser	Gln	Gly	Asp	Ile	
94		80		_			85		_			90		-	-		
96	GTG	TTT	GGC	TTC	CGG	TGT	GTT	GCC	TGT	GCC	ATG	GGC	ACC	TTC	TCC	GCA	397
97	Val	Phe	Gly	Phe	Arg	Cys	Val	Ala	Cys	Ala	Met	Gly	Thr	Phe	Ser	Ala	
98	95		_		_	100			_		105	_				110	
100	GGT	CGI	GAC	GGI	CAC	TGC	AGA	CTT	' TGG	ACC	AAC	TGI	TC1	CAG	TTI	GGA	445
10	l Gly	Arg	, Asp	Gly	His	Cys	Arg	Leu	Trp	Thr	Asn	Суя	Ser	Gln	Phe	Gly	
102	2				115					120					125		
104	1 TTT	CTC	ACC	ATG	TTC	CCT	' GGG	AAC	AAG	ACC	CAC	L'AA	GCI	GTG	TGC	ATC	493
109	5 Phe	Leu	Thr	Met	Phe	Pro	Gly	Asn	Lys	Thr	His	Asn	Ala	a Val	Cys	Ile	
106	5			130	)				135					140	)		
108	CCG	GAG	CCA	CTG	CCC	ACT	GAG	CAA	TAC	GGC	CAT	TTG	ACI	GTC	ATC	TTC	541
109	Pro	Glu	Pro	Leu	Pro	Thr	Glu	Gln	Tyr	Gly	His	Leu	Thr	. Val	Ile	Phe	
110	)		145					150					155	5			
	CTG																589
113	Leu	Val	Met	Ala	Ala	Cys	Ile	Phe	Phe	Leu	Thr	Thr	Val	. Gln	Leu	Gly	
114	ŀ	160					165					170					
	CTG																637
117	Leu	His	Ile	Trp	Gln	Leu	Arg	Arg	Gln	His	Met	Cys	Pro	Arg	Glu	Thr	
	175					180					185					190	
	CAG																685
121	. Gln	Pro	Phe	Ala	Glu	Val	Gln	Leu	Ser	Ala	Glu	Asp	Ala	Cys	Ser	Phe	
122					195					200					205		
	CAG																733
125	Gln	Phe	Pro	Glu	Glu	Glu	Arg	Gly	Glu	Gln	Thr	Glu	Glu	Lys	Cys	His	
126	5			210					215					220			
	CTG							GGCC	TGG	TCTT	CCTC	TG T	GCCC	CAAG	C		781
129	Leu	Gly	Gly	Arg	Trp	Pro											

## RAW SEQUENCE LISTING

DATE: 12/10/2004 PATENT APPLICATION: US/09/545,998A TIME: 13:41:47

Input Set : D:\14094-20005.10 - seq list from client.txt Output Set: N:\CRF4\12102004\I545998A.raw

130			225														
132														841			
		COMMOROUS COMMOR													901		
	MCA CERTA COL MINOCOCCORA POR COMO COMO POR CONTRA DE CONTRA DE COMO COMO COMO COMO COMO COMO COMO COM													961			
	CTTTGGGCCC ACCAAGAGCA CCACGTTTAG CACAAGATCT TGTACAAGAA TAAATACTTG													1021			
		TTTAGTAACC TGAAAAAAAA AAAAAAAAGG GCGGCCGCGG AGGCCGAATT CC														1073	
		(2) INFORMATION FOR SEQ ID NO: 2:															
145		(i	) SE	QUEN	CE C	HARA	CTER	ISTI	CS:								
146			_	_					aci	ds							
147			(	B) T	YPE:	ami	no a	cid									
148			(	D) T	OPOL	OGY:	lin	ear									
150	, ,																
152	52 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 54 Met Gly Ala Trp Ala Met Leu Tyr Gly Val Ser Met Leu Cys Val Leu																
154	Met	Gly	Ala	Trp	Ala	Met	Leu	Tyr	Gly	Val	Ser	Met	Leu	Cys	Val	Leu	
155	1				5					10					15		
157	Asp	Leu	Gly	Gln	Pro	Ser	Val	Val	Glu	Glu	Pro	Gly	Cys	Gly	Pro	Gly	
158				20					25					30			
160	Lys	Val	Gln	Asn	Gly	Ser	Gly	Asn	Asn	Thr	Arg	Cys	Cys	Ser	Leu	Tyr	
161			35					40					45				
163	Ala	Pro	Gly	Lys	Glu	Asp	Cys	Pro	Lys	Glu	Arg	Cys	Ile	Cys	Val	Thr	
164		50					55					60					
		Glu	Tyr	His	Cys		Asp	Pro	Gln	Cys		Ile	Cys	Lys	His	Tyr	
167	_65	_		_		70		_	_		75					80	
	Pro	Cys	GIn	Pro		Gln	Arg	Val	Glu		Gln	Gly	Asp	Ile	Val	Phe	
170	<b>~</b> 1	D1		~	85		~			90	_,	_,	_		95		
	GIY	Pne	Arg		vaı	Ala	Cys	Ala		GIY	Thr	Phe	Ser		Gly	Arg	
173	7 ~~	~1	TT i a	100	7	T	TT	mla	105	a	<b>a</b>	<b>61</b>	<b>5</b> 1	110	<b>D</b> 1	_	
176	Asp	GIY	115	Cys	Arg	Leu	пр	120	ASI	Cys	ser	GIN		GIY	Phe	Leu	
	Thr	Mot		Dro	G137	λan	Lvc		uia	λan	71-	17.7	125	т1 о	Pro	<b>01.</b> .	
179	1111	130	1110	110	GLY	ASII	135	1111	птэ	ASII	Ата	140	Суб	116	PLO	Giu	
	Pro		Pro	Thr	Glu	Gln		Glv	Hic	T. <b>-</b> 11	Thr		Tla	Dhe	Leu	Val.	
	145				014	150	- y -	O L y	111.5	пси	155	vai	110	FIIC	шец	160	
		Ala	Ala	Cvs	Ile		Phe	Len	Thr	Thr		Gln	T.e.11	Glv	Leu		
185				-1-	165					170		0211	шец	017	175		
	Ile	Trp	Gln	Leu		Ara	Gln	His	Met		Pro	Ara	Glu	Thr	Gln	Pro	
188		-		180		_			185	- 2 -				190			
190	Phe	Ala	Glu	Val	Gln	Leu	Ser	Ala		Asp	Ala	Cvs	Ser		Gln	Phe	
191			195					200		-		•	205				
193	Pro	Glu	Glu	Glu	Arg	Gly	Glu	Gln	Thr	Glu	Glu	Lys		His	Leu	Gly	
194		210			_	-	215					220	•			•	
196	Gly	Arg	Trp	Pro													
197	225																
199	(2)		RMAT														
201		(i)	SEÇ	QUENC	CE CH	IARAC	TERI	STIC	CS:								
202									pair	s							
203				3) TY													
204				C) SI				_	jle								
205			(I	) TC	POLC	GY:	line	ear									

RAW SEQUENCE LISTING

DATE: 12/10/2004 TIME: 13:41:47

PATENT APPLICATION: US/09/545,998A

Input Set : D:\14094-20005.10 - seq list from client.txt

Output Set: N:\CRF4\12102004\1545998A.raw

207 (ii) MOLECULE TYPE: 0 210 (ix) FEATURE:								A											
211		•			AME/	KEY:	CDS												
212								1723											
215		(xi			CE D				SEQ	ID N	0: 3	:							
217	ATG	GCA	CAG	CAC	GGG	GCG	ATG	GGC	GCG	TTT	CGG	GCC	CTG	TGC	GGC	CTG		48	
	Met																		
219	1				5			_		10	_			-	15				
221	GCG	CTG	CTG	TGC	GCG	CTC	AGC	CTG	GGT	CAG	CGC	CCC	ACC	GGG	GGT	CCC		96	
	Ala																		
223				20					25					30	_				
225	GGG	TGC	GGC	CCT	GGG	CGC	CTC	CTG	CTT	GGG	ACG	GGA	ACG	GAC	GCG	CGC		144	
226	Gly	Cys	Gly	Pro	Gly	Arg	Leu	Leu	Leu	Gly	Thr	Gly	Thr	Asp	Ala	Arg			
227			35					40					45						
	TGC																	192	
230	Cys	Cys	Arg	Val	His	Thr	Thr	Arg	Cys	Cys	Arg	Asp	Tyr	Pro	Gly	Glu			
231		50					55					60							
	GAG																	240	
234	Glu	Cys	Cys	Ser	Glu	$\mathtt{Trp}$	Asp	Cys	Met	Cys	Val	Gln	Pro	Glu	Phe	His			
235						70					75					80			
	TGC																	288	
	Cys	Gly	Asp	Pro		Cys	Thr	Thr	Cys		His	His	Pro	Cys	Pro	Pro			
239					85					90					95				
	GGC																	336	
	Gly	GIn	GIY		Gin	Ser	GIn	Gly	_	Phe	Ser	Phe	Gly		Gln	Cys			
243	3 ma	~~~		100	maa	~~~			105					110					
	ATC																	384	
	Ile	Asp		Ala	ser	GIY	Tnr		Ser	GIY	GIY	HIS		GIŸ	His	Cys			
247	AAA	CCT	115	7.07	CNC	maa.	700	120	mma	aaa	mmm	OITI O	125	аша	mma	000		420	
																		432	
251	Lys	130	тър	1111	Asp	Cys	135	GIII	FIIC	GIY	FIIC	140	1111	vai	Pile	PIO			
	GGG		מממ	ACC.	CAC	אאכ		стс	TCC	CTC	CCA		TICC	ccc	CCC	CCN		480	
	Gly																	400	
	145	11011	-75		*****	150	AIU	Val	Cyb	vai	155	GLY	Der	FIO	FIO	160			
	GAG	CCG	СТТ	GGG	TGG		ACC	GTC	GTC	כידיכי		GCC	стс	GCC	GCC			528	
	Glu																	J20	
259				<b></b> 1	165					170			val		175	Cyb			
	GTC	CTC	CTC	CTG		TCG	GCC	CAG	CTT		CTG	CAC	ATC	TGG		CTG		576	
	Val																	5.0	
263				180					185	2				190					
265	AGG	AGT	CAG	TGC	ATG	TGG	CCC	CGA	GAG	ACC	CAG	CTG	CTG		GAG	GTG		624	
	Arg																		
267			195	-		•		200					205						
269	CCG	CCG	TCG	ACC	GAA	GAC	GCC	AGA	AGC	TGC	CAG	TTC	CCC	GAG	GAA	GAG		672	
	Pro																		
271		210				-	215	_		-		220							
273	CGG	GGC	GAG	CGA	TCG	GCA	GAG	GAG	AAG	GGG	CGG	CTG	GGA	GAC	CTG	TGG		720	
	Arg																		
									-	-	-		-	_		-			

RAW SEQUENCE LISTING DATE: 12/10/2004
PATENT APPLICATION: US/09/545,998A TIME: 13:41:47

Input Set : D:\14094-20005.10 - seq list from client.txt
Output Set: N:\CRF4\12102004\1545998A.raw

275 225 230 235 240													
277 CTC TCACCCTCCC comcCTCCCC cacaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	73												
278 Val													
281 GAGCTCCCCA GGCCGCAGGG GCTCTGCGTT CTGCTCTGGG CCGGGCCCTG CTCCCCTGGC 83	13												
283 AGCAGAAGTG GGTGCAGGAA GGTGGCAGTG ACCAGCGCCC TGGACCATGC AGTTCGGCGG 85	3												
285 CCGCTCTAAA GGATCCAAGC TTACGTACGC GTGCATGCGA CGTCATAGCT CTTCTATAGT 95	3												
287 GTCACCTAAA TTCAATTCAC TGGCCGTCGT TTTACAACGT CCTGACTGGG AAA 100	16												
290 (2) INFORMATION FOR SEQ ID NO: 4:													
292 (i) SEQUENCE CHARACTERISTICS:													
293 (A) LENGTH: 241 amino acids													
294 (B) TYPE: amino acid 295 (D) TOPOLOGY: linear													
(=) TINGUI													
97 (ii) MOLECULE TYPE: protein 99 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:													
301 Met Ala Cla Mic Cla Ala Met Cla Ala Dha Ann Ala Ing Can a													
301 Met Ala Gln His Gly Ala Met Gly Ala Phe Arg Ala Leu Cys Gly Leu 302 1 5 10													
302 1 5 10 15 304 Ala Leu Leu Cys Ala Leu Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro													
305 20 25 30													
307 Gly Cys Gly Pro Gly Arg Leu Leu Gly Thr Gly Thr Asp Ala Arg													
308 35 40 45													
310 Cys Cys Arg Val His Thr Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu													
311 50 55 60													
313 Glu Cys Cys Ser Glu Trp Asp Cys Met Cys Val Gln Pro Glu Phe His													
314 65													
316 Cys Gly Asp Pro Cys Cys Thr Thr Cys Arg His His Pro Cys Pro Pro													
317 85 90 95													
319 Gly Gln Gly Val Gln Ser Gln Gly Lys Phe Ser Phe Gly Phe Gln Cys													
320 100 105 110													
322 Ile Asp Cys Ala Ser Gly Thr Phe Ser Gly Gly His Glu Gly His Cys													
323 115 120 125													
325 Lys Pro Trp Thr Asp Cys Thr Gln Phe Gly Phe Leu Thr Val Phe Pro													
326 130 135 140													
328 Gly Asn Lys Thr His Asn Ala Val Cys Val Pro Gly Ser Pro Pro Ala 329 145 150 155													
150 155 160 331 Glu Pro Leu Gly Trp Leu Thr Val Val Leu Leu Ala Val Ala Ala Cys													
222													
175 334 Val Leu Leu Thr Ser Ala Gln Leu Gly Leu His Ile Trp Gln Leu													
335 180 185 190													
337 Arg Ser Gln Cys Met Trp Pro Arg Glu Thr Gln Leu Leu Glu Val													
338 195 2.00 205													
340 Pro Pro Ser Thr Glu Asp Ala Arg Ser Cys Gln Phe Pro Glu Glu Glu													
341 210 215 220													
343 Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly Asp Leu Trp													
344 225 230 235 240													
346 Val													
349 (2) INFORMATION FOR SEQ ID NO: 5:													
351 (i) SEQUENCE CHARACTERISTICS:													
352 (A) LENGTH: 723 base pairs													
353 (B) TYPE: nucleic acid													

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/545,998A

DATE: 12/10/2004 TIME: 13:41:48

Input Set : D:\14094-20005.10 - seq list from client.txt

Output Set: N:\CRF4\12102004\1545998A.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]